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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,926	02/23/2004	Yoshihiro Imajo	HITA.0518	7547
7590 04/09/2008				
Stanley P. Fisher Reed Smith LLP Suite 1400 3110 Fairview Park Drive Falls Church, VA 22042-4503			EXAMINER NGUYEN, HOAN C	
			ART UNIT 2871	PAPER NUMBER
			MAIL DATE 04/09/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/782,926

**Applicant(s)**

IMAJO ET AL.

**Examiner**

HOAN C. NGUYEN

**Art Unit**

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 2-43 is/are pending in the application.
- 4a) Of the above claim(s) 3 and 5-38 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2, 4 and 39-43 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/S508)  
Paper No(s)/Mail Date 2/14/08, 1/23/08
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/23/2008 has been entered.

Claim 1 is cancelled. Claims 3 and 5-38 are withdrawn. Claims 2, 4, 39-43 are elected.

### ***Drawings***

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the feature of

- "an external device" in claim 2 to clarify how video data input
- "the second board" in claims 2 and 40 to clarify (a) the locations of the second connector and the display control circuit TCON (b) connection of "the second board" and display panel with FPC5, and (c) connection of "the second board" and first board through cnt4 or cnt5 (are cnt4 and cnt5 are different?)

must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Specification***

The disclosure is objected to under 37 CFR 1.71, as being so incomprehensible as to preclude a reasonable search of the prior art by the examiner. For example, the following items are not understood:

The specification discloses

[0185] First of all, in the same manner as the above-mentioned embodiments, the display control circuit board TCNS is arranged on a back surface side of a transparent substrate SUB1 of the display panel PNL and the connector board CNTS is arranged on a back surface of a lower frame UFM. In such a constitution, the electrical connection between the connector board CNTS and the display control circuit board TCN is established through an opening HOL formed in a lower frame UFM, wherein, for example, a female connector cnt5(fc) which is mounted on a display control circuit board TCNS (not TCN) side and a male connector cnt5(mc) which is mounted on a connector board CNTS (not CNT) side are engaged with each other by fitting in the opening HOL portion.

First, a female connector cnt5(fc) (cnt4 as Fig. 7A shown, are cnt4 and cnt5 are different?) which is mounted on a display control circuit board TCNS (not TCN) side and a male connector cnt5(mc) which is mounted on a connector board CNTS (not CNT) side are engaged with each other by fitting in the opening HOL portion.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 2, 4, 39-43 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 2 recites "a second board (a display control circuit board TCNS) having one end (at FPC5) mounted with a display control circuit TCON (as Fig. 7C shown) and having the other end (at cnt4) arranged in-between the display panel and the first board in a direction perpendicular to the display panel (as Fig. 7B shown) and connected to the display panel (where?) and the first board to transmit the video data from the first connector to the display control circuit (how?); thus the video data are inputted from an external device via the first connector CNT to the display control circuit TCON (not to display panel as above). There is contraction of how input the video data.

Furthermore, the one end of the second board (at FPC5) must be mounted with a display control circuit TCON (as Fig. 7C shown) and electrically connected to the display panel through FPC5, which electrically connects the terminal TML of the second board (display control circuit board TCNS) and the terminal TML of the display panel PNL. The other end of the second board (a display control circuit board TCNS, at cnt4 of Fig. 7A or cnt5 of Fig. B) must be connected with a first board (connector board CNTS) by the second connector to transmit video data from an external device through

a first connector CNT to the second board (a display control circuit board TCNS). However, the other end of the second board (a display control circuit board TCNS, at cnt4 of Fig. 7A or cnt5 of Fig. B) should be not connected to the display panel as the amended claim 2 cited.

Therefore, "a second board having one end (at FPC5) mounted with a display control circuit TCON and having the other end (at cnt4 and not mounted with a display control circuit TCON) arranged in-between the display panel and the first board in a direction perpendicular to the display panel (as Fig. 7B shown) and connected to both (a) the display panel and (b) the first board to transmit the video data from the first connector to the display control circuit". **These amended features raise the New Subject Matter, which has not disclosed in the original specification.**

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 2, 4, 39-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites "a first board (connector board CNTS) mounted with a first connector CNT which inputs video data to be displayed on the display panel from an external device"; thus video data must be inputted from an external device to display panel.

However, claim 2 further recites "a second board (a display control circuit board TCNS) having one end (at FPC5) mounted with a display control circuit TCON (as Fig. 7C shown) and having the other end (at cnt4) arranged in-between the display panel and the first board in a direction perpendicular to the display panel (as Fig. 7B shown) and connected to the display panel (where?) and the first board to transmit the video data from the first connector to the display control circuit (how?); thus the video data must inputted from an external device via the first connector CNT to the display control circuit TCON (not to display panel as above).

There is contradiction of how input the video data since "video data are inputted display panel" and "video data are inputted to the display control circuit TCON" are different.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (571) 272-2296. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim H. Robert can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for



published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HOAN C. NGUYEN  
Examiner  
Art Unit 2871

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/Andrew Schechter/

Primary Examiner, Art Unit 2871